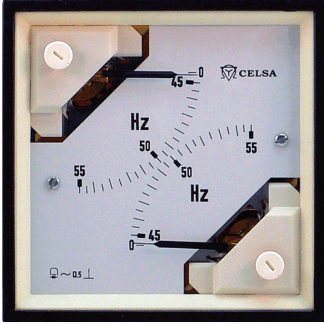


# ANALOGUE MEASURING INSTRUMENTS

## FAD / PRN Double Pointer Type Frequency Meter / Zero Voltage Meter



FAD



PRN

### Double Pointer Type Frequency Meter

- Moving coil system with electronic transducer
- For alternating current 50 - 60 Hz

### Zero Voltage Meter

- Moving coil system with rectifier
- For alternating current

### Description FAD

The instruments have 2 independent moving coil movements to measure the frequency for example between 2 generators or one generator and the net. These instruments are made of a moving coil movement with electronic transducer. The meter movements are jewelled and shock-proofed by sprung storage of jewels.

The indication is mainly independent of curves, form errors and fluctuations of the measuring voltage.

Admissible change in rating voltage:  $\pm 20\%$

External magnet field: 0.5 mT

### Description PRN

This instrument can be used instead of a synchroscope. It measures the difference between two sinusoidal voltages. If both voltages are the same and in phase the device indicates zero.

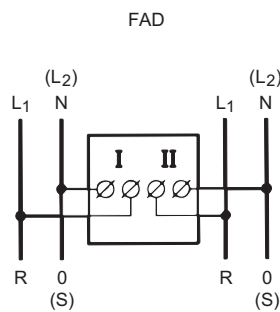
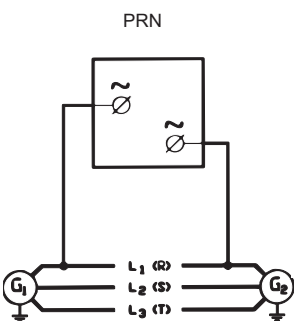
The system is a moving coil system with rectifier. It is very sensitive and offers a extensive protection as it can be permanently charged with the double voltage without damage.

### Technical Features

Type	FAD96n	PRN96s	PRN144s
Front frame (mm)	96 x 96	96 x 96	144 x 144
Scale length (mm)	2 x 54	100	140
Weight (g)	260	260	530
Consumption	max 3	max 3	max 3.5
<b>Voltage (V)</b>			
100	●	●	●
110	●	●	●
230	●	●	●
400	●	●	●
500	○	○	○
Terminal cover	●	●	-

● available ○ on request

### Connection diagrams



### Housing dimensions

Dimensions in mm							
Type	a	c	d	e	g	h	∅
FAD 96n	96	53	64	92 <sup>+0.8</sup>	26	5,5	M4
PRN 96s	96	60	76	92 <sup>+0.8</sup>	10	5	M4
PRN 144s	144	60	76	144 <sup>+1</sup>	10	5,5	M4

